Viking™ On Nicolet™ EDX
Advancing electrodiagnostics and monitoring with the next generation system
Introducing the New Viking On Nicolet EDX System

The Viking On Nicolet EDX system from Nicolet combines state of the art technology with over 60 years of proven clinical knowledge and innovation to set new standards for EMG, EP and IOM testing.

Because it’s based on the successful Viking software, users can expect to benefit from a familiar clinical workflow and user interface together with full patient and protocol compatibility with existing Viking products.

The rich Viking feature set and clinical automation together with the exceptional signal quality, artifact rejection, and environmental noise suppression of the Nicolet EDX system reduced patient discomfort as well as examination time.

The Viking On Nicolet EDX delivers an electrodiagnostic platform powerful enough to satisfy the demanding needs of today and flexible enough to meet the anticipated needs of tomorrow.

The latest addition to the long and successful line of Viking™ products excels in clinical functionality, signal quality, and flexibility.
The Viking On Nicolet EDX has been developed in close cooperation with physicians, technicians, and researchers across the world resulting in a system flexible and powerful enough to meet the different needs without compromising ease of use or quality.

Customizing the Viking On Nicolet EDX System

- Offers a wide variety of tests ranging from nerve conduction, electromyography, to different evoked potential modalities.
- Can be configured as a cart based or a mobile system.
- Can be used together with a Notebook or a Desktop PC.
- Can support two electrical stimulators, an auditory stimulator, and a visual stimulator.
- Two Trigger Inputs and Trigger Outputs paired with a very flexible triggering functionality ensure the necessary integration with many different types of external stimulators.
- Both on-line and off-line audio can be replayed on the integrated speaker or a user supplied speaker to provide maximal flexibility.
- External analysis systems can be connected to the live continuous data using either digital data or analog outputs.
- Many of the system features can be upgraded at the time of purchase or later when new requirements arise without sending back the equipment.

Designed to deliver flexibility without compromises
Building on decades of development and clinical feedback to deliver best in class clinical functionality

The Viking On Nicolet EDX System is powered by the newest version of the Viking software delivering all the great and familiar features as well as a large number of improvements that will make testing even easier and more efficient.

Clinical Applications
The Viking On Nicolet EDX provides a broad range of electrodiagnostic tests as well as the flexibility to support new clinical routines and research requirements. Each test is rich with features focused on delivering reliable results in the most efficient way while adapting to your workflow and reporting needs.

Nerve Conduction Studies
- Integrated Motor and F-Waves to minimize examination time
- Roll Back and Roll Forward minimizes stimulation by saving all responses to allow selection of the best response
- Multiple replications can be done and averaged together to optimize results
- Select the responses to be averaged
- Define different studies by combining various examinations into a single set to meet your testing needs
- Extensive NCS exams are available
  - Motor, Sensory, Combined Motor & Sensory
  - F-Waves, Blink Reflex, H Reflex
  - Repetitive Stimulation
  - Inching, Anomalous Innervation

Advanced Nerve Conduction Studies
- Conduction Velocity Distribution (CVD) and Statistical MUNE
  - Provides information and graphs on the conduction velocity distribution of the nerve fibers within a nerve
  - Semi-automatic and standardized method for estimating the number of active motor units in a muscle

EMG
- Continuous EMG storage and replay
- On-line signal quality analysis with quality and rate meters
- User definable displays and workflow
- On-line and off-line EMG summary and reporting
- Integrated EMG examinations
  - Spontaneous Activity
  - Single motor unit analysis
  - Maximal Volitional Analysis
  - Quantitative EMG
  - Turns and Amplitude and frequency analysis test
- Single Fiber EMG Analysis
  - Maximal reanalysis and editing capabilities
  - Various types of analysis are available
    - Volitional SFEMG
    - Stimulated SFEMG
    - Fiber Density

Multi Modality Program (MMP)
- Provides a high degree of flexibility
- Predefined exams are available
  - Multi-Channel EMG
  - Macro EMG
  - Spike Triggered Averaging
  - Continuous Data Export
  - Bereitschafts potential
  - Autonomic exams
  - R-R Interval/Valsalva
  - Sympathetic/Galvanic Skin Response (SSR/GSR)

Evoked Potentials
- Flexibility of choosing individual exams or a combined package
- Automatic marker placement
- Examination automation
- Multiple replications methods
- Four modes of EP testing
  - AEP with patient hearing threshold function
  - SEP
  - VEP
  - ERG/EOG
  - P300

Intraoperative Monitoring
- Monitor vital brain and nerve functions during surgery
- Trend plots, curve stacks, automation and remote review for optimal functionality
- All in one – a combined Clinical and IOM acquisition system

Support Software
- Reference Help for NCS Testing
  - Contains reference values, diagrams and text for electrode and stimulator placement from accompanying textbook
- MicroSoft Word Report
  - Automatically generates a report immediately after the tests have been completed
  - Highly customizable, numerical results, traces, Left/Right side comparison, highlighted results and much more
- Producer
  - Capture images as well as videos of the acquisition screen for training material, presentations, or procedure documentation
- Reader
  - Convenient remote reviewing and reporting of results
- Networking
  - Extensive patient administration and networking functionality (NicVue)
  - Integrate into the hospital information system (V-Link)

Additional Testing*
- Triple Stimulation
  - Provides information about the motor cortex in a quantifiable and reproducible manner
  - Suitable for comparison and longitudinal studies of motor cortex functionality
- Tremor
  - Records in different states: rest, posture, and with different loads.
  - Analyzes the frequency contents and coherence of tremors

Needle EMG
- Dual time base
- Rastered traces
- Quality monitor

Brain Stem Auditory Evoked Response
- Test hearing threshold
- Replicated responses
- Automation and post analysis

Nerve Conduction Study
- Setup at your fingertips
- All responses saved and the best response always available
- Quick and easy workflow

*Not for sale in the U.S.
Nicolet EDX Hardware Components
Compact and flexible, the Nicolet EDX hardware is built for performance and quality.

**Compact Base Unit**
- Houses electrical and auditory stimulators
- Integrated high quality speaker
- Connections to multiple stimulators and other devices
  - Control Panel
  - Electrical Stimulator Probes
  - Head Phones
  - LED Goggles
  - Temperature Probe
  - Reflex Hammer
  - Single or Triple Footswitch
  - Single USB connection to computer
  - Analog Output
  - 2 Trigger Inputs
  - 2 Trigger Outputs
- Multiple System Functionality
  - Signal Analysis
  - Filtering
  - Triggering

**Scalable Features**
- Easy to upgrade as testing needs increase
- None, 1, or 2 Electrical Stimulators
  - Optional stimulator switching pods with up to 24 stimulator pairs, 2 Low Level outputs, and 2 outputs for stimulator probe
- Auditory Stimulator
- Number of Active Amplifier Channels

**Advanced Technology Amplifiers**
- AT2 Amplifier
  - 2 high performance non-switching channels
- AT2+6 Amplifier
  - 2 high performance non-switching channels
  - 6 high performance switching channels
  - 22 input connections for switching channels
  - Built-In Features
    - Impedance
    - Calibration
    - Temperature Measurement
- Headboxes
  - Clinical Headbox (HB-6) extending the distance between patient and amplifier

**Ergonomic Design**
- Electrical Stimulator Probes
  - Comfortable to hold
  - Optimized to reach all test sites
  - Interchangeable probe heads
    - Multiple Sizes (large or small)
    - Multiple Orientations (angled, straight, or touch proof)
- Two Probes with Different Interfaces
  - Comfort Probe (RS10)
    - Controlled by the control panel or mouse (software)
  - Comfort Probe Plus (WR50)
    - Control buttons on probe
    - Start/Stop stimulus
    - Change stimulus intensity, duration, and polarity
    - Move to next site

**Viking On Nicolet EDX**
Fusing hardware expertise with advanced technology to power the next generation electrodiagnostic system.
Our comprehensive line of leading neuro supplies and accessories complement the performance offered by the Nicolet EDX system. We offer well-established and trusted brands like Nicolet™ and TECA® recognized for market leadership.

Neuro Supplies and Accessories

- New Luer Lock MyoJect Needle
- A Full Line of Disposable Adhesive Electrodes
- Disposable NCV Kit with Leads
- TECA Elite Disposable Concentric Needle Electrodes
Nicolet – a leader in EMG solutions

Nicolet Brand Products, headquartered in Middleton, Wisconsin, is a global market leader providing diagnostic and monitoring medical equipment for neurological and vascular markets, supplies and accessories as well as integrated connectivity solutions.

Our world-class customer support team is with you every step of the way to help you get the most out of your investment. With a large and experienced staff, we can provide you with the assistance you need, when you need it.

Customers of Nicolet include hospitals, alternate care sites, clinical laboratories, and physician and veterinarian practices in more than 100 countries. You can be reassured that every system meets the stringent standards that you expect.